

NEW RECORDS FOR OHIO DRAGONFLIES†

(ODONATA: ANISOPTERA)

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Publications concerned with the distribution of the Odonata of Ohio have appeared with some regularity over the past sixty-five years. The earliest of these were included by Borror (1937) in his comprehensive summation of the collections and records for Ohio. Since that date, six other papers have expanded the known distributions to some twelve hundred records for the suborder Anisoptera. These reports, however, obviously do not present a realistic picture of the Ohio dragonfly fauna. With ninety-five species and eighty-eight counties, the potential distributions must be more extensive than those reported. The mean number of counties thus far reported for a species is six (average of 10.43). Conversely, the mean number of species reported for a county is seven (average 11.26). More specifically, only seven counties have more than one-third of the Ohio species reported for them. These seven are quickly identified with specific collectors: Defiance, Paulding, and Williams with Homer F. Price; Erie with James S. Hine, B. Elwood Montgomery, et al.; Logan and Franklin with Donald Borror; and Portage with R. C. Osburn and J. S. Hine. Thus, again published records indicate the distribution of collectors, not of species.

The following new county records increase by twenty percent the records published for the suborder Anisoptera. All of the specimens were collected and identified by the author and are in his collection. The collecting resulting in this report was done incidental to other responsibilities, which took the author into almost one-half of the counties in Ohio during the summer months of 1957 and 1958. Due to the nature of opportunities for collecting, little concentrated effort could be extended towards being comprehensive in any one area or extensive in the types of habitats visited. Therefore, the twenty species in this report are in general those frequenting pools, ponds, lake shores, or roadside ditches.

These records are based upon actual collections; sightings are not included. By this criterion, collections are considered as supplanting previous sightings. Such new records are indicated with an asterisk (*). The number used for each species corresponds to that assigned by Borror (1937) and Price (1958).

List of New County Records

- 31 *Anax junius* (Drury)
Allen, Athens, Clark, Crawford, Hardin, Highland, Hocking, Jackson*, Knox, Marion, Morrow, Muskingum, Pike*, Preble, Richland, Wood, Wyandot.
- 36 *Aeschna constricta* Say
Licking
- 49 *Epicordulia princeps* (Hagen)
Crawford, Jackson, Knox, Morrow, Preble, Scioto.
- 50 *Tetragoneuria cynosura* (Say)
Scioto
- 54 *Perithemis tenera* (Say)
Allen, Ashland, Athens, Crawford, Delaware, Fayette, Hardin, Highland, Hocking, Huron, Jackson, Knox, Madison, Marion, Morrow, Muskingum, Perry, Pickaway, Pike, Preble, Richland, Ross, Scioto, Seneca, Union, Wood, Wyandot.
- 55 *Celithemis elisa* (Hagen)
Athens, Hocking, Knox, Lawrence, Licking, Perry, Pickaway, Wood.
- 56 *Celithemis eponina* (Drury)
Clark*, Delaware, Hardin, Knox, Morrow, Richland, Wayne.
- 62 *Libellula cyanea* Fabricius
Athens, Jackson, Scioto.

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- 64 *Libellula luctuosa* Burmeister
Allen, Athens, Auglaize, Clark*, Crawford, Fayette, Hardin, Highland, Hocking*, Holmes*, Huron, Knox, Lawrence, Morrow, Muskingum, Perry, Pickaway, Preble, Richland, Ross*, Scioto, Seneca, Union, Wyandot.
- 65 *Plathemis lydia* (Drury)
Allen, Athens, Crawford, Darke, Fayette*, Hardin, Highland, Holmes, Huron, Jackson, Perry, Preble, Richmond, Union, Wyandot.
- 66 *Libellula pulchella* Drury
Allen, Athens, Auglaize*, Coshocton*, Crawford, Hardin, Highland, Huron, Morrow, Muskingum, Perry, Pike*, Richland, Seneca, Wood, Wyandot.
- 144 *Sympetrum costiferum* (Hagen)
Knox.
- 72 *Sympetrum obtrusum* (Hagen)
Huron.
- 73 *Sympetrum rubicundulum* (Say)
Allen, Ashland, Auglaize, Crawford, Hardin, Holmes, Huron, Knox, Marion, Muskingum, Wyandot.
- 74 *Sympetrum semicinctum* (Say)
Allen, Crawford, Delaware, Hardin, Holmes, Licking, Marion, Richland.
- 76 *Sympetrum vicinum* (Hagen)
Huron, Knox, Richland.
- 78 *Pachydiplax longipennis* (Burmeister)
Allen, Athens, Clark, Crawford, Fayette, Hardin, Highland, Huron, Jackson, Knox, Pike*, Preble, Richland, Ross, Scioto, Seneca, Union, Wyandot.
- 79 *Erythemis simplicicollis* (Say)
Allen, Clark*, Crawford, Delaware, Hardin, Highland, Hocking, Huron, Jackson, Knox, Lawrence, Marion, Montgomery*, Morrow, Muskingum, Pike, Preble, Richland, Ross, Scioto, Seneca, Union, Wyandot.
- 82 *Tramea carolina* (Linnaeus)
Hocking, Licking*.
- 83 *Tramea lacerata* Hagen
Ashland, Athens, Fayette, Hardin, Highland, Hocking*, Huron, Jackson*, Knox, Lawrence, Marion, Morrow, Preble, Richland, Wyandot.

Extensions of Seasonal Range

These collections also contain specimens which extend the seasonal range of three species.

- 144 *Sympetrum costiferum* (Hagen)
One female collected at a small weedy pond near Centerburg, Ohio (Knox County) on July 12, 1957, radically extends the date of this species in Ohio. The previous dates of September 4 to October 23 were given by Price (1958) for northwestern counties.
- 72 *Sympetrum obtrusum* (Hagen)
One male of this species collected at Granville, Ohio, October 3, 1957, extends the seasonal range of this species (June 23 to September 27) as published by Borror (1937) and Price (1950).
- 74 *Sympetrum semicinctum* (Say)
One male of this species collected at Granville, Ohio, on October 5, 1958, extends the seasonal range of this species (July 2—September 21) as given by Borror and Epstein (1942).

REFERENCES CITED

- Borror, D. J.** 1937. An annotated list of the dragonflies (Odonata) of Ohio. *Ohio Jour. Sci.* 37: 185-196.
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- Price, H. F.** 1950. Notes on the dragonflies (Odonata) of northwestern Ohio. *Ohio Jour. Sci.* 50: 71-78.
- . 1958. Additional notes on the dragonflies of northwestern Ohio. *Ohio Jour. Sci.* 58: 50-62.